L Number	Hits	Search Text	DB	Time stamp
-	22828	dwell adj time	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 08:55
-	7313	(dwell adj time) same ATM or kiosk	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:51
-	68	((dwell adj time) same ATM or kiosk) same (number near5 (people or persons or individuals))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 09:22
-	61	(((dwell adj time) same ATM or kiosk) same (number near5 (people or persons or individuals))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 09:20
-	620	((dwell adj time) same ATM or kiosk) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56
-	549	(((dwell adj time) same ATM or kiosk) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56
-	202	(((dwell adj time) same ATM or kiosk) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)) and ((number near5 (people or persons or individuals)) or (length near4 (line or queue$)))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 09:23
-	4504	((dwell adj time) same ATM or kiosk) and ((custom$ or modif$ or tailor or adapt$ or program$) with (message or display or communication or feature or function or presentation or demonstration or ad or advertisement))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:55
-	535	(((dwell adj time) same ATM or kiosk) and ((custom$ or modif$ or tailor or adapt$ or program$) with (message or display or communication or feature or function or presentation or demonstration or ad or advertisement))) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56
-	473	(((dwell adj time) same ATM or kiosk) and ((custom$ or modif$ or tailor or adapt$ or program$) with (message or display or communication or feature or function or presentation or demonstration or ad or advertisement))) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56

DOCUMENT-IDENTIFIER: US 20030036936 A1

TITLE: Computer method and apparatus to
estimate customer

                         arrival times using transactional data

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Application Filing Date - APD (1):
    20010817

Summary of Invention Paragraph - BSTX (3):
    [0002] The present invention generally relates to a method
of estimating
customer arrival times at a terminal (e.g., a cash register)
using
transactional data from the terminal. The present invention
may be implemented
to estimate queue length at checkout lanes in a retail
establishment, in a
bank, at customer service desks, at self-service kiosks, at
banks, or any other
location where a queue (line) of people or other objects may
form.

Summary of Invention Paragraph - BSTX (7):
    [0006] The general problem of estimating customer arrival
times from
transaction data has not been considered by others. For our
discussion, we
define customer as a person, group of people, object, or
group of objects that
eventually results in one transaction. The general problem
of estimating the
queue length at a terminal has been considered by a number of
people. There
are two main methods conventionally recognized: video methods
and one software
method. Video methods include those patented by Huang and
Florencio of NCR
Corporation in U.S. Pat. Nos. 5,953,055 and 6,195,121,
both entitled "System

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2	7313	(dwell adj time) same ATM or kiosk	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:51
3	68	((dwell adj time) same ATM or kiosk) same (number near5 (people or persons or individuals))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 09:22
4	61	((((dwell adj time) same ATM or kiosk) same (number near5 (people or persons or individuals))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 09:20
5	620	((dwell adj time) same ATM or kiosk) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56
6	549	((((dwell adj time) same ATM or kiosk) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56
7	202	((((dwell adj time) same ATM or kiosk) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)) and ((number near5 (people or persons or individuals)) or (length near4 (line or queue$)))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 09:23
8	4504	((dwell adj time) same ATM or kiosk) and ((custom$ or modif$ or tailor or adapt$ or program$) with (message or display or communication or feature or function or presentation or demonstration or ad or advertisement))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:55
9	535	((((dwell adj time) same ATM or kiosk) and ((custom$ or modif$ or tailor or adapt$ or program$) with (message or display or communication or feature or function or presentation or demonstration or ad or advertisement))) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56
10	473	((((dwell adj time) same ATM or kiosk) and ((custom$ or modif$ or tailor or adapt$ or program$) with (message or display or communication or feature or function or presentation or demonstration or ad or advertisement))) and ((queue or line or wait$) near5 (analy$ or determin$ or detect$))) and(@pd<20011230 or @ad<20011230 or @rlad<20011230 or @PRAD<20011230)	USPAT; US-PGPUB; EPO; DERWENT	2004/04/04 10:56